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FY 2006 APHIS Form 7023 Submission

This report is required by law (? USC 21 43) Failure to report according to the regulations can result in an order to cease and desist and to be subject lo penalties as provided for in Section 2150

Set reverse side for additionalinformation

Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1 REGISTRATION NO. 21-R-0076 / 331

FORM APPROVED
OMB NO. 0579-0036

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA include Zip Code)

MAIMONIDES MEDICAL CENTER
4802 10th Avenue
Brooklyn, NY 11219
T: (718) 283-8439

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS (Sites)

Maimonides Medical Center

4802 10th Ave, Brooklyn, NY 11219

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS FORM 7023A)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. *(An explanation of the procedures producing pain or distress in those animals and the reasons such drugs were not used must be attached to this report)*	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs			10		10
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits			6	96	102
9. Non-human Primates					
10. Sheep					
11., Pigs			9		9
12. Other Farm Animals					
13 Other Animals					

ASSURANCE STATEMENTS

1) Professionally acceptable standards governing the care, treatment, and use of animals including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility

2) Each principal investigator has considered alternatives to painful procedures.

3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary **of all such exceptions is attached lo this annual report.** In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.

4) The attending veterinarianfor this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

(b)(6), (b)(7)c

DATE SIGNED

11/20/06

FY2006 APHIS Form 7023 Column E Explanation

This form is intended as an aid to completing the APHIS Form 7023 Column E explanation. It is not an official form and its use is voluntary. Names, addresses, protocols, veterinary care programs, and the like, are not required as part of an explanation. A Column E explanation must be written so as to be understood by lay persons as well as scientists.

1. Registration Number: 21-R-0076 / 331

2. Number of animals used in this study. **60**

3. Species (common name) of animals used in the study. ***Rabbit***

4. Explain the procedure producing pain and/or distress.

The anterior cruciate ligament (ACL) located in the knee is transected (that is cut). This destabilizes the knee and permits arthritis to develop. Development of an arthritic model is critical to the conduct of this research.

5. Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results. (For federally mandated testing, see question 6 below)

Pain and/or distress are limited to the period after surgery. A normal unadulterated rabbit model for arthritis is needed to successfully conduct this research. Use of analgesics, antibiotics, corticosteroids, etc., introduce variables which may negate the development of an arthritis model and invalidate the experimental results. It should be noted that pain medication is given for 72 hours after surgery and the rabbits are evaluated for signs of pain and/or distress prior to stopping the medication.

6. What, if any, federal regulations require this procedure? Cite the agency, the Code of Federal Regulations (CFR) title number and the specific section number (e.g., APHIS, 9 CFR 113.102):

Not applicable.

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1. Registration Number: 21-R-0076 / 331

2. Number of animals used in this study. **36**

3. Species (common name) of animals used in the study. ***Rabbit***

4. Explain the procedure producing pain and/or distress.

In this study, the knee is approached through a medial parapatellar incision with the patella dislocated laterally. A 3mm full-thickness cartilage defect is created in the medial femoral condyle using a dermal biopsy punch and manual debridement. The subchondral bone plate is exposed. Microfracture will occur using a Kirschner wire tapped into the subchondral bone to a depth of approximately 3mm. Three microfracture holes are created within each full-thickness chondral defect. The patella will then be reduced and the joint capsule closed.

5. Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results. (For federally mandated testing, see question 6 below)

Pain and/or distress are limited to the period after surgery. A normal unadulterated rabbit model of a full-thickness chondral defect is needed to successfully conduct this research. Use of analgesics, antibiotics, corticosteroids, etc., introduce variables which may negate the development of an arthritis model and invalidate the experimental results. It should be noted that pain medication is given for 72 hours after surgery and the rabbits are evaluated for signs of pain and/or distress prior to stopping the medication.

6. What, if any, federal regulations require this procedure? Cite the agency, the Code of Federal Regulations (CFR) title number and the specific section number (e.g., APHIS, 9 CFR 113.102):

Not applicable.